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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/651,260	08/30/2000	Jong Sang Baek	8733.A285	1251		
30827	7590 03/26/2004	EXAMINER				
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006			NGUYEN, KI	NGUYEN, KIMNHUNG T		
			ART UNIT	PAPER NUMBER		
	,		2674	28		
			DATE MAILED: 03/26/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
		09/651,20	50	BAEK, JONG SANG				
Οπιο	e Action Summary	Examine		Art Unit				
			Nguyen	2674				
The MA	ILING DATE of this communicat	tion appears on the	ecover sheet with the) correspondence ad	Idress			
THE MAILING - Extensions of time after SIX (6) MON' - If the period for rep. - If NO period for reply with Any reply received	D STATUTORY PERIOD FOR DATE OF THIS COMMUNICA may be available under the provisions of 37 THS from the mailing date of this communic bly specified above is less than thirty (30) dated by is specified above, the maximum statuto hin the set or extended period for reply will, by the Office later than three months after the adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no evation. ays, a reply within the statiny period will apply and with stating the apply and with the cause the app	ent, however, may a reply be utory minimum of thirty (30) d ill expire SIX (6) MONTHS fro lication to become ABANDO	timely filed lays will be considered timel om the mailing date of this c NED (35 U.S.C. § 133).	ly. xommunication.			
Status								
2a) This action 3) Since this	ive to communication(s) filed on is FINAL . 2b)[s application is in condition for accordance with the practice to	☐ This action is nation allowance except	on-final. for formal matters, p		e merits is			
Disposition of Cla	ims							
4a) Of the 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s)	Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Application Paper	'S							
10) The drawing Applicant Replacem	fication is objected to by the Exing(s) filed on is/are: a) may not request that any objection ent drawing sheet(s) including the or declaration is objected to by	accepted or b) n to the drawing(s) be correction is require	ne held in abeyance. S ed if the drawing(s) is c	see 37 CFR 1.85(a). Objected to. See 37 Cl				
Priority under 35 I	J.S.C. § 119							
a) All b) 1. Ce 2. Ce 3. Co ap	dgment is made of a claim for the Some * c) None of: rtified copies of the priority document the copies of the priority document the copies of the certified copies of the clication from the International trached detailed Office action for the copies of the certified copies of the clication from the International trached detailed Office action for the copies of the certified copies of the cop	cuments have bee cuments have bee he priority docume Bureau (PCT Rul	n received. n received in Applica ents have been recei e 17.2(a)).	ation No ved in this National	Stage			
Attachment(s)			_					
_	erson's Patent Drawing Review (PTO-tosure Statement(s) (PTO-1449 or PTC		4) Interview Summan Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date	D-152)			

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DETAILED ACTION

This Application has been examined. The claims 1-6 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Chang et al. (US 6,611,247).

Regarding claim 1, Chang et al. disclose in figures 7-9, a liquid crystal display device with a multi-timing controller (70) comprising a liquid crystal display panel having a display standard (see resolution of figure table); an interface (50, figure 1) receiving a timing data inputted from the exterior thereof and a control signal corresponding to the display standard; a timing controller for latching and outputting the timing data inputted from the interface, and for generating and outputting timing signals for driving the liquid crystal display panel based on the control signal; and a driving circuit for receiving the timing signals outputted from the timing controller to display a picture corresponding to the display standard, wherein said timing controller includes a decoder (82, figure 8) and a timing generator (42, figure 3), wherein timing generation information corresponding to a plurality of display standards is stored by the decoder

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(see resolution of VGA, SVGA, XGA of table 2), wherein the decoder outputs to the timing generator, timing information corresponding to the timing data, and wherein timing generator outputs timing signals corresponding to the timing information and the control signal (see abstract).

Regarding claim 2, Chang et al. disclose the liquid crystal display device further comprising a dip switch (see switching element TFT, see column 1, lines 32-33) for selecting the timing data corresponding to the display standard.

Regarding claim 6, Chang et al. disclose wherein the display standard is selected from SVGA (see column 2, table 2).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. (US 6,611,247) in view of Barshinger (US 5,049,864).

Chang et al. disclose in figures 7-9, a liquid crystal display device with a multi-timing controller (70) as discusses above. However, Chang et al. do not disclose wherein the decoder consists of a memory for storing certain timing information and a multiplexor for selecting any one of the timing information stored in the memory. Barshinger discloses in figure 1, the LCD (26, 28, 30) having decoder and multiplexer (22) are stored in the memory (14, see column 4,

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lines 6-15). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of the LCD having decoder and mutiplexer are stored in the memory as taught by Barshinger because this would be made available to the decoder as 8 bit numbers (see column 4, lines 29-33).

Allowable Subject Matter

5. Claims 4-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The present invention is directed a liquid crystal display device with a multi-timing controller comprising a liquid crystal display panel having a display standard receiving a timing data inputted from the exterior thereof and a control signal corresponding to the display standard; a timing controller for latching and outputting the timing data inputted from the interface, and for generating and outputting timing signals for driving the liquid crystal display panel based on the control signal; and a driving circuit for receiving the timing signals outputted from the timing controller to display a picture corresponding to the display standard, wherein said timing controller includes a decoder, and a timing generator, wherein timing generation information corresponding to a plurality of display standards is stored by the decoder. The combination of Chang et al. (US 6,611,247) and Barshinger (US 5,049,864) show a similar system having multi-timing controller and a plurality of display standards is stored by a decoder. However, they fail to teach wherein the timing generator includes a first controller for generating the timing signal

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corresponding to the timing information selected from the decoder, a second, a third, a fourth, and a fifth controller for always equally keeping the polarity of the horizontal/vertical synchronizing signal as claim 4.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen March 15, 2004

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600